

Process Flow Chart

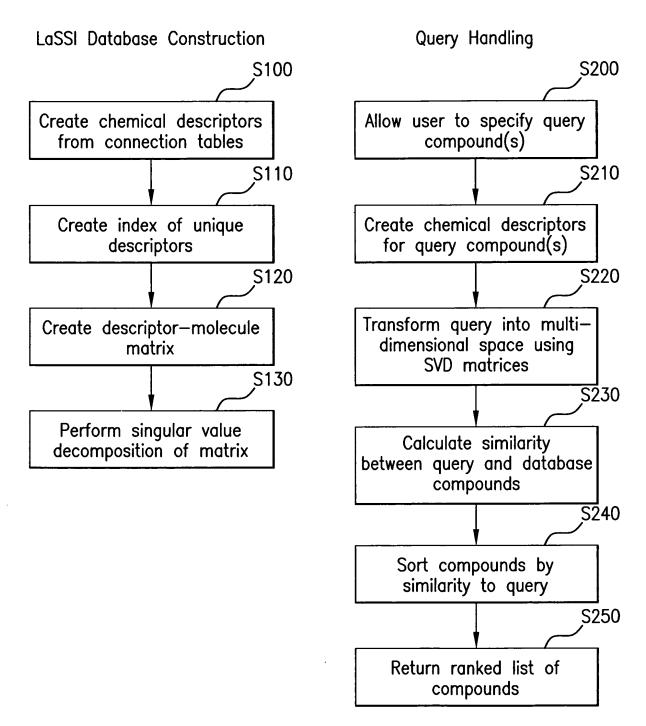


FIG.1

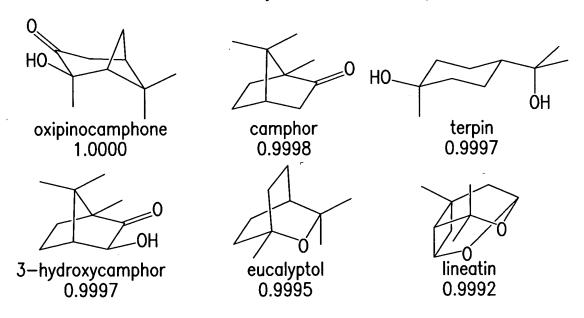


Probe and its twelve most similar monoterpenes selected using 2 singular values



4-t-butylcyclohexanol Probe molecule

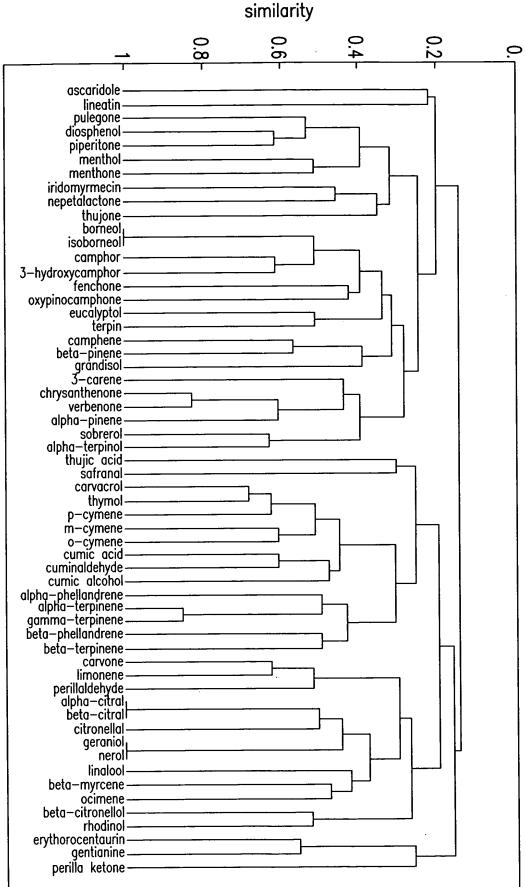
6 Most similar by Tanimoto similarity



6 Most similar by LaSSI similarity

FIG.2



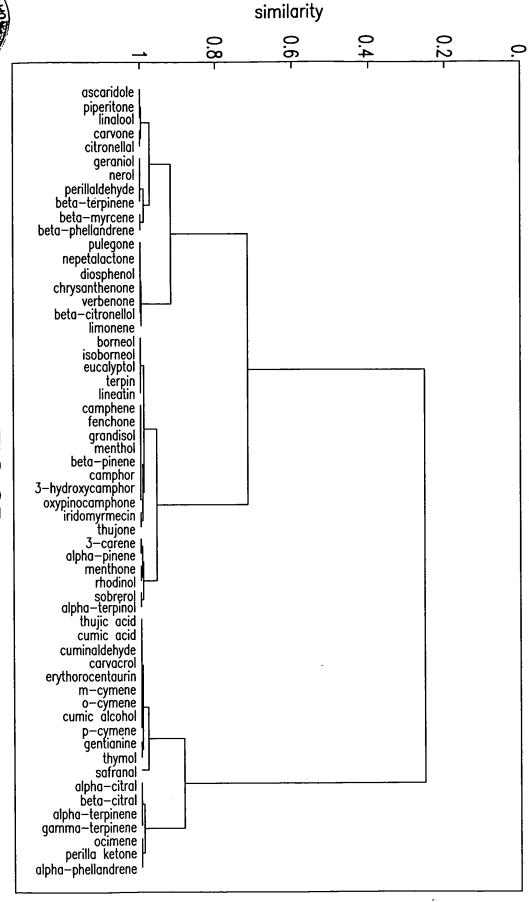


Dendrograms Showing Similarities For Tanimoto and LaSSI

Tanimoto similarity, average linkage clustering

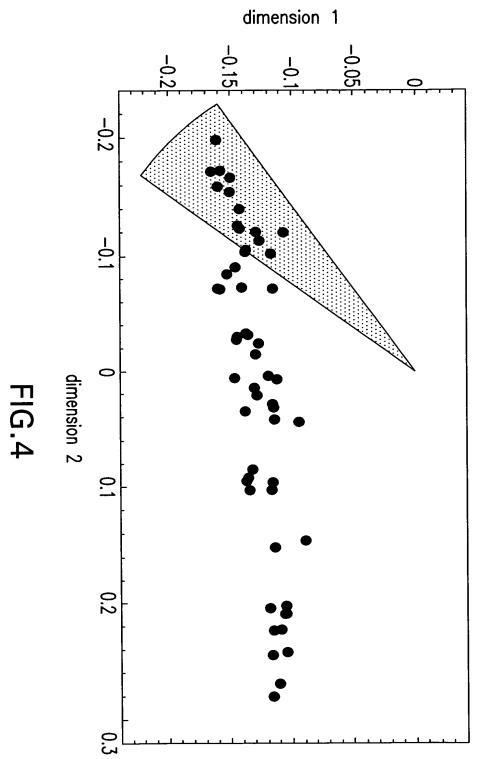
FIG.3A





Dendrograms Showing Similarities For Tanimoto and LaSSI LaSSI similarity (2 singular values), average linkage clustering







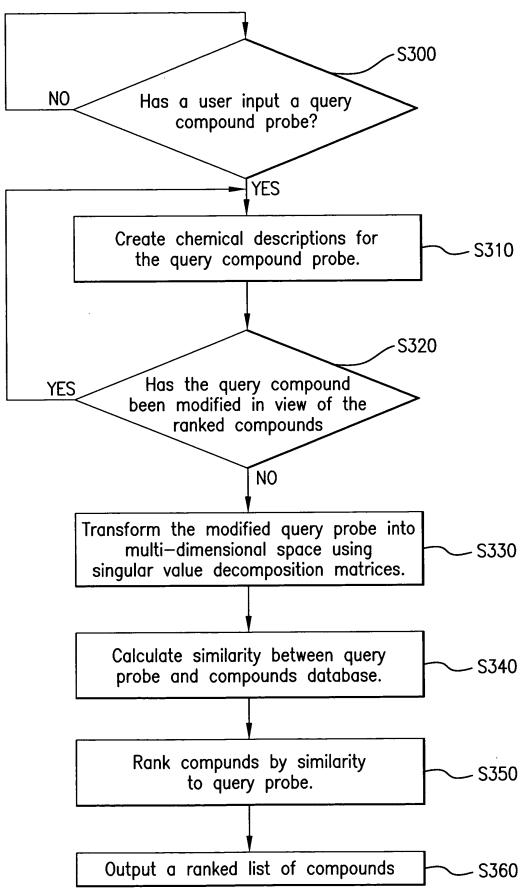


FIG.5

Standard probes used in this study. Each is labeled by the MDDR external registry, its name, and associated activity.

FIG.6a



FIG.6b



Probes used for peptide -> non-peptide tests.

159880 F-DPDPE opioid analgesics

187236 GR-83074 neurokinin antagonists

170958 oxytocin antagonists

$$0 \longrightarrow 0 \longrightarrow 0$$

$$0 \longrightarrow 0$$

188541 G-4120 gplib/illa antagonists

174556 BQ-123 endothelin antagonists

cycAll [Sar¹,Hcy^{3,5},II⁸]All All blockers

The initial enhancement for LaSSI APTT vs the number of singular values shown for three examples.

Initial Enhancement vs Singular Values

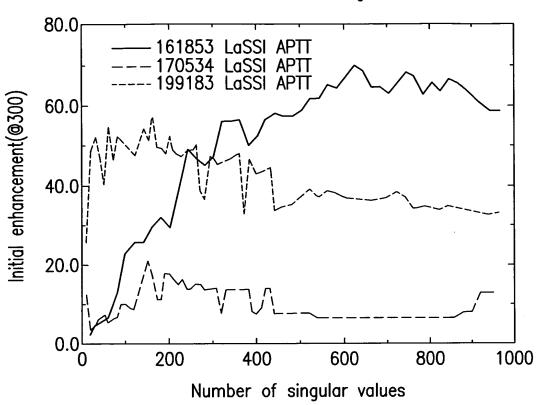


FIG.8



The correlation of rank for Dice APTT and LaSSI APTT. The example is 199183 using 170 singular values. Each circle represents a HIV protease inhibitor.

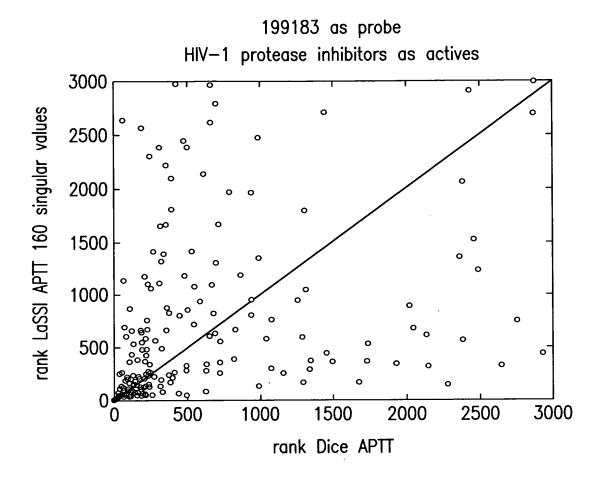


FIG.9

Selected compounds that have extremely different ranks in Dice APTT vs LaSSI APPT. The examples are 161853 with 800 singular values, 170534 with 150 singular values. The ranks in two types of search are indicated.



Mean similarity of the probe to each molecule in the top scoring 300 compounds (MSP300) for three samples. The MSP300 for Dice searches are shown as a horizontal lines. For comparison, the MSP300 for random sets of 300 compounds from MDDR would be 0.12-0.14.

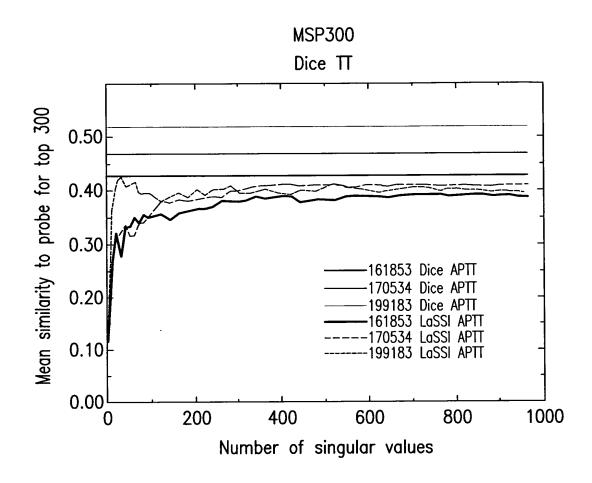


FIG.11

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Cumulative actives found vs compounds tested for 187236 as a probe. The actives are oxytocin antagonists that do not contain a dipeptide moiety.

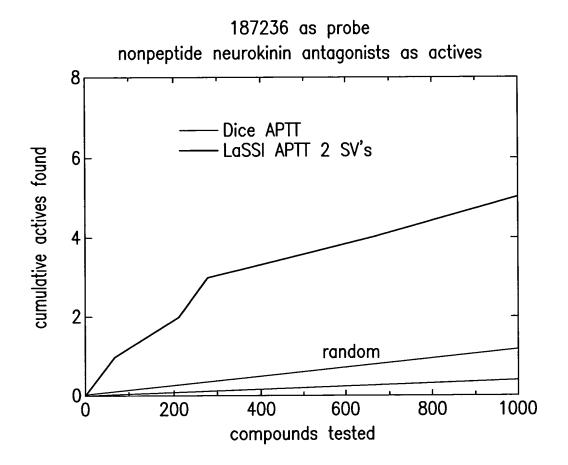


FIG.12

Selected non-peptide compounds that have extremely different ranks in Dice APTT vs LaSSI APTT for the statistically significant peptide to non-peptide examples.

188541 gpllb/Illa receptor antagonists (15 SV's)

FIG.13



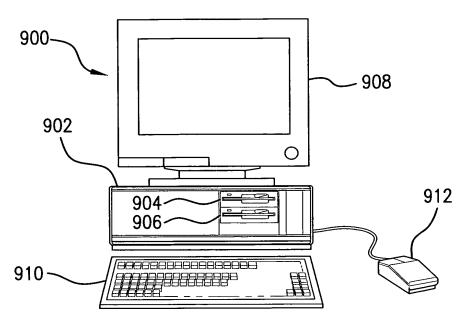
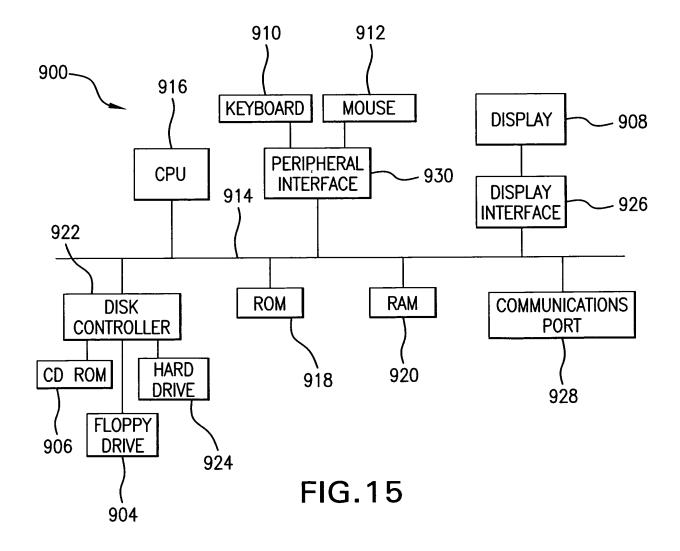


FIG.14





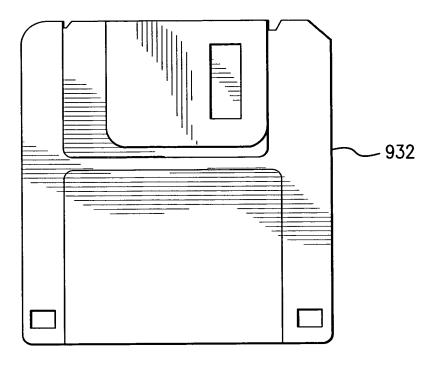


FIG.16